54402

WATER RESOURCES

Gaffigan

REGULATIONS IMPLEMENTING THE NEW JERSEY WATER POLLUTION CONTROL ACT

N.J.S.A. 58:10 A

INCLUDING

7:14A - 1 NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM (N J P D E S)

7:9 - 6 GROUND WATER QUALITY STANDARDS

7:14 - 8 ASSESSMENT OF CIVIL ADMINISTRATIVE PENALTIES

7:1E - 1 DISCHARGES OF PETROLEUM AND OTHER HAZARDOUS SUBSTANCES Spill Act

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New Jersey Department of Environmental Protection

Natio. resource such as ground waters of National and State Parks, wildlife refuges, and wildlife management areas and ground waters of exceptional ecological significance.

(h) Where existing ground-water quality does not meet the criteria listed herein, due primarily to man's activities, it is the policy and objective of the department that the quality be restored and upgraded to the minimum levels of quality stated in section 6 of this subchapter.

(i) When existing water quality does not conform with the established minimum criteria solely as a result of natural causes, natural water quality characteristics shall prevail.

(j) The following statements concern the nondegradation of Central Pine Barrens water quality:

1. The Central Pine Barrens Area constitutes a unique and particularly fragile ecosystem compared with other coastal areas. Furthermore, the ground waters in the Central Pine Barrens have a major impact on the quantity and quality of the surface waters in the Central Pine Barrens. The vast high quality groundwater reservoir in the area necessitates a special State groundwater quality policy. In light of the vulnerable character of the area, the Department of Environmental Protection shall not, in the performance of its statutory duties, approve any activity which, alone or in combination with other activities, will cause degradation in the existing groundwater quality characteristics of the Central Pine Barrens.

2. The State's Central Pine Barrens water quality policy is not intended to interfere with water use for the operation of cranberry bogs or blueberry production.

7:9-6.5 Ground water designated uses and quality criteria

(a) The Department will adopt as part of this chapter, after proper procedure, Water Quality Criteria and Effluent Limitations for additional toxic pollutants pursuant to the Clean Water Act, Sections 301, 304, and 307 of P.L. 92-500, as amended by P.L. 95-217 (33 U.S.C.A. 1251 et seq.).

(b) When existing groundwater quality does not meet the criteria listed in N.J.A.C. 7:9-5.6, due primarily to man's activities, the department shall, after a review of all available scientific and technical data, determine whether it shall require dischargers, through a schedule of compliance or other manner deemed appropriate by the Department, to restore and upgrade the ground water to the minimum levels of quality stated in N.J.A.C. 7:9-5.6 or contain the contamination within boundaries determined by the Department. The major considerations in making such a determination shall be whether, in the opinion of the Department, the degradation constitutes a threat to public health and safety or interferes with the present or potential uses of ground water. The timing, nature, and extent of the compliance procedure shall be determined by the Department after a review of the specific factors affecting each individual case.

(c) Class GW2 ground water having a natural total dissolved solids (TDS) concentration of 500 mg/l or less shall be suitable for potable, industrial, or agricultural water supply, after conventional water treatment (for hardness, pH, Fe, Mn, and chlorination) where necessary, or for the continual replenishment of surface waters to maintain the quantity and quality of the surface waters of the State, and other reasonable uses. Quality criteria for these waters may be found in N.J.A.C. 7:9-5.6.

(d) Class GW3 ground water having a natural TDS concentration between 500 mg/l and 10,000 mg/l shall be suitable for conversion to fresh potable waters, or other reasonable beneficial uses. Quality criteria for these waters may be found in N.J.A.C. 7:9-5.6.

(e) Class GW4 ground water having a natural total dissolved solids concentration in excess of 10,000 mg/l shall be suitable for any reasonable beneficial use. Effluent limits and quality criteria will be determined on a case by case basis for these waters.

(f) Class GW1 ground water in the Central Pine Barrens shall be suitable for potable water supply, agricultural water supply, continual replenishment of surface waters to maintain the existing quantity and high quality of the surface waters in the Central Pine Barrens, and other reasonable uses. Quality criteria for these waters may be found in N.J.A.C. 7:9-5.6.

(g) Subdivision of the groundwater categories identified in this section shall follow the procedures in N.J.A.C. 7:9-5.10.

Case Note

Validity of standards.

N.J. Builders Ass'n v. D.E.P., 169 *N.J. Super.* 76 (App. Div. 1979), certif. den. 81 *N.J.* 402 (1979).

7:9-6.6 Ground-water quality criteria

The maximum limits for a specific criterion shall be exceeded only as a result of natural conditions. The Department may establish limits in the terms and conditions of a permit which will allow the secondary standards as identified in N.J.A.C. 7:9-6.6(b) and (c) to be exceeded provided that there is no adverse effect upon the designated uses of ground water.

Case Note

Validity of standards.

N.J. Builders Ass'n v. D.E.P., 169 *N.J. Super.* 76 (App. Div. 1979), certif. den. 81 *N.J.* 402 (1979).

	Odor and Taste	29. None Noticeable
	Oil and Grease and Petroleum Hydrocarbons	29. None Noticeable
	pH (Standard Units)	31. 4.2-5.8
	Phosphate, Total	32. 0.7 mg/l
33.	Sodium	33. 10 mg/l
34.	Sulfate	34. 15 mg/l
35.	Total Dissolved Solids	35. 100 mg/l
36.	Zinc and Compounds	36. 5 mg/l

(b) Ground-water quality criteria statewide where the total dissolved solids (TDS, Natural Background) Concentration is less than or equal to 500 mg/l (Class GW2):

Pollutant, Substance Or Chemical	Ground Water Quality Criteria
Primary Standards/Toxic Pollutants	
1. Aldrin/Dieldrin	1. 0.003 ug/l
2. Arsenic and Compounds	2. 0.05 mg/l
3. Barium	3. 1.0 mg/l
4. Benzidine	4. 0.0001 mg/l
5. Cadmium and Compounds	5. 0.01 mg/l
6. Chromium (Hexavalent) and Compounds	6. 0.05 mg/l
7. Cyanide	7. 0.2 mg/l
8. DDT and Metabolites	8. 0.001 ug/l
9. Endrin	9. 0.004 ug/l
10. Lead and Compounds	10. 0.05 mg/l
11. Mercury and Compounds	11. 0.002 mg/l
12. Nitrate-Nitrogen	12. 10 mg/l
13. Phenol	13. 3.5 mg/l
14. Polychlorinated Biphenyls	14. 0.001 ug/l
15. Radionuclides	15. Prevailing regulations adopted by the USEPA pursuant to selections 1412, 1415, and 1450 of the Public Health Services Act as amended by the Safe Drinking Water Act (PL 93-523)
16. Selenium and Compounds	16. 0.01 mg/l
17. Silver and Compounds	17. 0.05 mg/l
18. Toxaphene	18. 0.005 ug/l
Secondary Standards	
19. Ammonia	19. 0.5 mg/l
20. Chloride	20. 250 mg/l
21. Coliform Bacteria	21. a) by membrane filtration, not to exceed four per 100 ml in more than one sample

		when less than 20 are examined per month, or b) by fermentation tube, with a standard 10 ml portion, not to be present in three or more portions in more than one sample when less than 20 are examined per month, or c) Prevailing criteria adopted pursuant to the Federal Safe Drinking Water Act (PL 93-523)
22.	Color	22. None Noticeable
23.	Copper	23. 1.0 mg/l
24.	Fluoride	24. 2.0 mg/l
25.	Foaming Agents	25. 0.5 mg/l
26.	Iron	26. 0.3 mg/l
27.	Manganese	27. 0.05 mg/l
28.	Odor and Taste	28. None Noticeable
29.	Oil and Grease and Petroleum Hydrocarbons	29. None Noticeable
30.	pH (Standard Units)	30. 5-9
31.	Phenol	31. 0.3 mg/l
32.	Sodium	32. 50 mg/l
33.	Sulfate	33. 250 mg/l
34.	Total Dissolved Solids	34. 500 mg/l
35.	Zinc and Compounds	35. 5 mg/l

(c) Ground-water quality criteria statewide where the total dissolved solids (TDS, Natural background) concentration is between 500 mg/l and 10,000 mg/l (Class GW3)

Primary Statewide/Toxic Pollutants

Pollutant, Substance or Chemical		Ground-Water Quality Criteria
1.	Aldrin/Dieldrin	1. 0.003 ug/l
2.	Arsenic and Compounds	2. 0.05 mg/l
3.	Barium	3. 1.0 mg/l
4.	Benzadine	4. 0.0001 mg/l
5.	Cadmium and Compounds	5. 0.01 mg/l
6.	Chromium (Hexavalent) and Compounds	6. 0.05 mg/l
7.	Cyanide	7. 0.2 mg/l
8.	DDT and Metabolites	8. 0.001 ug/l
9.	Endrin	9. 0.004 ug/l
10.	Lead and Compounds	10. 0.05 mg/l
11.	Mercury and Compounds	11. 0.002 mg/l
12.	Nitrate-Nitrogen	12. 10 mg/l
13.	Phenol	13. 3.5 mg/l